



PTO/SB/21 (09-04)

JPW

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

| | |
|------------------------|------------------|
| Application Number | 10/685,743 |
| Filing Date | October 14, 2003 |
| First Named Inventor | Hideo Tabuchi |
| Art Unit | 2162 |
| Examiner Name | Hung Q. Pham |
| Attorney Docket Number | 16869P-015010US |

ENCLOSURES (Check all that apply)

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): USPTO forms SB08A & B (three pages), copies of 3 cited references, Return Postcard |
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|---------|--|
| Remarks | The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430. |
|---------|--|

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

| | | | |
|--------------|------------------------------------|----------|--------|
| Firm Name | Townsend and Townsend and Crew LLP | | |
| Signature | | | |
| Printed name | George B. F. Yee | | |
| Date | 6/1 '05 | Reg. No. | 37,478 |

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

| | | | |
|-----------------------|--------------|------|--------|
| Signature | | | |
| Typed or printed name | Roger Hilton | Date | 6/2/05 |



Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$180)

Complete if Known

Application Number 10/685,743
Filing Date October 14, 2003
First Named Inventor Hideo Tabuchi
Examiner Name Hung Q. Pham
Art Unit 2162
Attorney Docket No. 16869P-015010US

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____
☒ Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038

FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES | | SEARCH FEES | | EXAMINATION FEES | | Fees Paid (\$) |
|------------------|--------------|--------------|--------------|--------------|------------------|--------------|----------------|
| | Small Entity | Small Entity | Small Entity | Small Entity | Small Entity | Small Entity | |
| | Fee (\$) | Fee (\$) | Fee (\$) | Fee (\$) | Fee (\$) | Fee (\$) | |
| Utility | 300 | 150 | 500 | 250 | 200 | 100 | |
| Design | 200 | 100 | 100 | 50 | 130 | 65 | |
| Plant | 200 | 100 | 300 | 150 | 160 | 80 | |
| Reissue | 300 | 150 | 500 | 250 | 600 | 300 | |
| Provisional | 200 | 100 | 0 | 0 | 0 | 0 | |

2. EXCESS CLAIM FEES

| Fee Description | Small Entity | Small Entity |
|---|--------------|--------------|
| | Fee (\$) | Fee (\$) |
| Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent | 50 | 25 |
| Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent | 200 | 100 |
| Multiple dependent claims | 360 | 180 |

| Total Claims | Extra Claims | Fee (\$) | Fee Paid (\$) | Multiple Dependent Claims | Fee (\$) | Fee Paid (\$) |
|---|--------------|----------|---------------|---------------------------|----------|---------------|
| _____ -20 or HP = _____ x _____ = _____ | | | | | | |
| HP = highest number of total claims paid for, if greater than 20 | | | | | | |
| Indep. Claims | Extra Claims | Fee (\$) | Fee Paid (\$) | | | |
| _____ -3 or HP = _____ x _____ = _____ | | | | | | |
| HP = highest number of independent claims paid for, if greater than 3 | | | | | | |

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|---|--------------|--|----------|---------------|
| _____ - 100 = _____ / 50 = _____ (round up to a whole number) x _____ = _____ | | | | |

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other: Submission of Information Disclosure Stmt

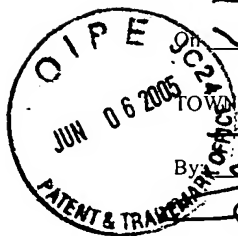
Fees Paid (\$)**180****SUBMITTED BY**

| | | | |
|-------------------|------------------|---|------------------------|
| Signature | | Registration No. 37,478 (Attorney/Agent) | Telephone 650-326-2400 |
| Name (Print/Type) | George B. F. Yee | | Date 6/1/05 |

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

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P.O. Box 1450
Alexandria, VA 22313-1450

PATENT
Attorney Docket No.: 16869P-015010US
Client Reference No.: 340000157US2



TOWNSEND and TOWNSEND and CREW LLP

By: 
Roger Hylton

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hideo Tabuchi et al.

Application No.: 10/685,743

Filed: October 14, 2003

For: METHOD FOR DUPLICATING
DATA OF STORAGE SUBSYSTEM
AND DATA DUPLICATING SYSTEM

Examiner: Hung Q. Pham

Art Unit: 2162

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the cited foreign patent and non-patent references are enclosed.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

06/06/2005 CNGUYEN 00000062 201430 10685743

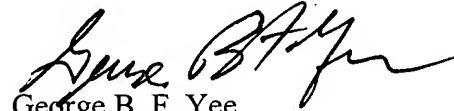
01 FC:1806 180.00 DA

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



George B. F. Yee
Reg. No. 37,478

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GBFY:rnh



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| Substitute for form PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Complete if Known | |
| | | Application Number | 10/685,743 |
| | | Filing Date | October 14, 2003 |
| | | First Named Inventor | Hideo Tabuchi |
| | | Art Unit | 2162 |
| | | Examiner Name | Hung Q. Pham |
| Sheet | 1 | of | 3 |
| | | Attorney Docket Number | 16869P-015010US |

| U.S. PATENT DOCUMENTS+ | | | | | |
|------------------------|--------------------------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number Kind Code ² (if known) | | | |
| | 1 | US-2004/0199737 | 10-07-2004 | Yamamoto et al. | |
| | 2 | US-2004/0088484 | 05-06-2004 | Yamamoto et al. | |
| | 3 | US-2004/0068628 | 04-28-2004 | Suzuki et al. | |
| | 4 | US-2003/0182526 A1 | 09-25-2003 | Mikkelsen, et al. | |
| | 5 | US-6,615,332 | 09-02-2003 | Yamamoto et al. | |
| | 6 | US-6,539,462 B1 | 03-29-2003 | Mikkelsen, et al. | |
| | 7 | US-6,535,994 | 03-18-2003 | Kedem | |
| | 8 | US-6,535,967 | 03-18-2003 | Milillo, et al. | |
| | 9 | US-6,446,175 | 09-03-2002 | West, et al. | |
| | 10 | US-6,415,373 | 07-02-2002 | Peters et al. | |
| | 11 | US-6,408,370 | 06-18-2002 | Yamamoto et al. | |
| | 12 | US-6,324,654 | 11-27-2001 | Wahl, et al. | |
| | 13 | US-2001/0010070 | 07-26-2001 | Crockett et al. | |
| | 14 | US-6,260,124 | 07-10-2001 | Crockett et al. | |
| | 15 | US-6,185,659 | 02-06-2001 | Milillo et al. | |
| | 16 | US-6,178,521 | 01-23-2001 | Filgate | |
| | 17 | US-6,173,293 | 01-09-2001 | Thekkath, et al. | |
| | 18 | US-6,161,165 | 12-12-2000 | Solomon, et al. | |
| | 19 | US-6,157,991 | 12-05-2000 | Arnon | |
| | 20 | US-6,052,799 | 04-18-2000 | Le et al. | |
| | 21 | US-6,044,444 | 03-28-2000 | Ofek | |
| | 22 | US-09/526,948 | 03-16-2000 | Tabuchi et al. | |
| | 23 | US-09/513,932 | 02-28-2000 | Tabuchi et al. | |
| | 24 | US-5,949,970 | 09-07-1999 | Sipple et al. | |
| | 25 | US-5,937,414 | 08-10-1999 | Souder et al. | |
| | 26 | US-5,893,140 | 04-06-1999 | Vahalia et al. | |
| | 27 | US-5,870,537 | 02-09-1999 | Kern et al. | |
| | 28 | US-5,845,328 | 12-01-1998 | Maya et al. | |
| | 29 | US-5,799,141 | 08-25-1998 | Galipeau et al. | |
| | 30 | US-5,742,792 | 04-21-1998 | Yanai et al. | |
| | 31 | US-5,734,818 | 03-31-1998 | Kern et al. | |
| | 32 | US-5,720,029 | 02-17-1998 | Kern et al. | |
| | 33 | US-5,615,329 | 03-25-1997 | Kern et al. | |
| | 34 | US-5,592,618 | 01-07-1997 | Micka et al. | |
| | 35 | US-5,555,371 | 09-10-1996 | Duyanovich et al. | |
| | 36 | US-5,544,347 | 08-06-1996 | Yanei et al. | |
| | 37 | US-5,446,871 | 08-29-1995 | Sholmer et al. | |
| | 38 | US-5,390,327 | 02-14-1995 | Lubbers et al. | |
| | 39 | US-5,257,352 | 10-26-1993 | Yamamoto et al. | |

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|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.
60498368 v2

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| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | Application Number | 10/685,743 |
| | | | | Filing Date | October 14, 2003 |
| | | | | First Named Inventor | Hideo Tabuchi |
| | | | | Art Unit | 2162 |
| | | | | Examiner Name | Hung Q. Pham |
| Sheet | 2 | of | 3 | Attorney Docket Number | 16869P-015010US |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|--------------------------|---------------------------|---------------------|-----------------------------------|--------------------------------|---|--|-------------------------------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ | Number ⁴ | Kind Code ⁵ (if known) | | | | |
| | 40 | JP | 09-325917 | A | 12-16-1997 | Hitachi Ltd. | | <input checked="" type="checkbox"/> |
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| Examiner Signature | | Date Considered | |
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60498368 v2

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| | | | | Application Number | 10/685,743 |
| | | | | Filing Date | October 14, 2003 |
| | | | | First Named Inventor | Hideo Tabuchi |
| | | | | Art Unit | 2162 |
| | | | | Examiner Name | Hung Q. Pham |
| Sheet | 3 | of | 3 | Attorney Docket Number | 16869P-015010US |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|--------------------------|---|----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | 41 | IBM 3990/9390 Storage Control Introduction, 9th Edition, IBM Corporation, pp. 23-26 and 78-89 (October 1996). | |
| | 42 | "Digital Storage SCSI Bus Extenders/Converters and UltraSCSI Hubs version 2.0," pp. 7.1 - 7.5, Digital Equipment Corporation (March 1998). | |
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|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.